

CLAIMS

What is claimed is:

[Vapor delivery system receiving a stream of fresh air]

- Sub 41
- 09625603-072600
1. A vapor delivery system for neutralizing malodors in a malodorous area, the vapor delivery system comprising:
 - a. a vaporization chamber having a sidewall positioned between a chamber ceiling and a chamber floor, the sidewall including an intake port positioned on the sidewall substantially diametrically opposed to an outlet port also positioned on the sidewall, the intake port and outlet port allowing a stream of air to enter said vaporization chamber through said intake port and exit said vaporization chamber through said outlet port, said vaporization chamber otherwise being enclosed;
 - b. at least one nozzle having a spray tip directed toward said chamber floor, said at least one nozzle receiving a stream of pressurized air and a stream of liquid to allow said nozzle to deliver an atomized spray of liquid into said vaporization chamber, said atomized liquid being vaporized in the vaporization chamber and incorporated in said stream of air to create a stream of treated air; and
 - c. a distribution system communicating with said outlet port for delivering said stream of treated air to the malodorous area, said distribution system having at least one vapor release port for releasing said treated air stream to the malodorous area.
 2. The vapor delivery system of claim 1 wherein said air intake port communicates with an air filter for removing air bound particles from said air stream before entering said vaporization chamber.

3. The vapor delivery system of claim 1 wherein said spray tip of said nozzle is positioned in said chamber ceiling.
4. The vapor delivery system of claim 1 further comprising a blower connected between said chamber outlet port and said distribution system, said blower operable to draw said stream of air into said air intake port and push said stream of treated air through said distribution system.

[method claims]

5. A method of neutralizing malodors comprising the steps of:

- a. providing an enclosed vaporization chamber having a chamber wall positioned between a chamber ceiling and a chamber floor, the chamber wall having an intake port and a diametrically opposed outlet port;
- b. drawing a stream of gas through said intake port into said vaporization chamber;
- c. spraying an atomized liquid deodorant into said vaporization chamber through a nozzle, said nozzle including a tip that sprays said liquid deodorant toward said chamber floor;
- d. bringing said stream of gas into contact with said atomized liquid deodorant in said vaporization chamber so that said liquid vaporizes into said gas to create a stream of treated gas; and
- e. delivering said stream of treated gas through said outlet port to a distribution system having at least one vapor release port for releasing said treated air stream from said distribution system.